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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/509,969	10/01/2004	Michael Thomas Hauke	PU020085	9986

7590 11/18/2009  
Joseph S Tripoli  
Thomson Licensing Inc  
P O Box 5312  
Princeton, NJ 08543-5312

EXAMINER
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YENKE, BRIAN P

ART UNIT	PAPER NUMBER
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2622

MAIL DATE	DELIVERY MODE
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11/18/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/509,969	<b>Applicant(s)</b> HAUKE ET AL.	
	<b>Examiner</b> BRIAN P. YENKE	<b>Art Unit</b> 2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 14 July 2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)                        | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

### ***Information Disclosure Statement***

2. The examiner requests applicant's clarification regarding the date of the Kameleon AV Modular System brochure, which was submitted (10/01/04) (pages 22-25). Also, the examiner requests the applicant to provide such reference on a references cited PTO-1449, along with the corresponding published data.

### ***Claim Rejections - 35 USC § 103***

3. Claims 1-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Der Wal et al., US 6,188,381 in view of Gatto et al., US 2006/0026637 and Ju et al., US 2002/0008779.

In considering claims 1 and 12, ,

a)-b) the claimed a first module...is met by processor motherboard (PM) 10 (which include signal processors 1-4 (Fig 1) which communicate with Video Processor Motherboards (20) (Fig 1, col 5, line 66 to col 7, line 31) (i.e. the second module) using the global control bus 40 and the global video bus 30. Van Der Wel discloses the use of a non-volatile memory 338 which is used for program and data storage for embedded startup and execution (col 15, line 49-67), which allows the system to be changed based on the requirements for the application program (col 18, line 12-55).

Regarding the input—output characteristic, although the examiner believes that a system that can reconfigure it's hardware/software settings based upon newly added/disconnected modules, the examiner will nonetheless incorporate Gatto, US 2006/0026637 which discloses that a system may have it's

modules/devices connected which can be connected to the analog and/or digital bus (para 008), wherein the selection (switching) the device to the correct buse(s) can be performed.

As described in applicant's disclosure the sensing of an analog or digital signal pertains to the coupling characteristic, thus met by the combination above.

The examiner will also incorporate the A/V module extension as disclosed by Jue et al., US 2002/0008779, which discloses the conventional features of having a based module which transmits/receives data from function extension modules.

The combination of Van Der Wal and Gatto which discloses the use of a modular system using analog and/or digital components/buses would be motivated by Ju et al., to incorporate the function extension feature as taught by Ju to afford easier control of multiple devices, whether home or away.

In considering claims 2 and 8, 13-14, 16-17 and 19-20,

As stated above the PM 10 determines/detects which VPM's to activates in order to determine which program(s)/hardware/software to control based upon startup and execution.

Both Gatto/Ju disclose the concept of establishing communication protocol.

In considering claim 15,

In addition to that already stated above (claim 1), both Gatto/Jun establish communication with a device, wherein Gatto discloses the concept of connecting to an analog and/or digital bus, and Jun discloses the concept of function extension modules being inserted/removed wherein communication between the base module and function modules is carried out (notably IEEE-1394).

In considering claim 21,

As stated above (claim 1), Van Der Wal discloses allowing programming of the hardware as components are added and subtracted (see abstract) for the video processing system for different application.

Regarding the enabling access, since the use of A/V devices within a household are typically used by more than one person, the non-accessibility of some characteristics would be obvious to one of ordinary skill in the art, most notably parent-child scenario.

In considering claim 23,

As disclosed by Van Der Wal, only the software/hardware that is required is utilized, thereby inhibiting access to all but said claimed least predetermined one of the processing characteristics.

In considering claim 24,

Refer to claim 2 above.

In considering claims 3-5 and 6, 18 and 22,

Van Der Wal does not specifically disclose the components of the system including an personality pin, coupling characteristic , LUT measurement/comparison, or field programmable gate array.

Van Der Wal discloses a system which includes a primary motherboard 10 which includes 4 digital signal processor's which control for display a variety of video processor motherboards 20 utilizing the global control bus 40 and the global video bus 30. Thus it would have been obvious to use active and/or passive circuitry in the design of the modular parallel-pipelined vision system , since the designer has to active/passive components which are available off the shelf.

The detection/determination of modules based upon a node potential, coupling characteristic, or LUT measurement/comparison which provide the designer available methods/devices in monitoring/detection controlling the system.

In considering claims 7, 9 and 10,

Van Der Wal discloses the various embodiments of a active/passive combination backplanes and also the use of passive backplanes where it is thus known that the use of active and/or passive only components in the design of a system is optional/design choice, being obvious to one of ordinary skill in the art.

In considering claim 11,

Van Der Wal discloses the term video in the disclosure, but does not explicitly recite the conventional accommodation of audio where it is known that based upon the type of video signal utilized, the accompanying audio would be beneficial and thus processed by a system, or alternatively on

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providing the audio for sound/music application would obviously be an obvious implementation to one of ordinary skill in the art.

In considering claim 18,

The selling price of a unit in regards to access, is not inventive since compatibility between modules, if they are connected will have access based on the module type and input/output characteristics, price being a factor which changes the unit's cost, not the compatibility between devices.

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure—see newly cited references on attached form PTO-892.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (571)272-7359. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, David L. Ometz, can be reached at (571)272-7593.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

**(571)-273-8300**

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703)305-HELP.

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The Patent Electronic Business Center (EBC) allows USPTO customers to retrieve data, check the status of pending actions, and submit information and applications. The tools currently available in the Patent EBC are Patent Application Information Retrieval (PAIR) and the Electronic Filing System (EFS). PAIR (<http://pair.uspto.gov>) provides customers direct secure access to their own patent application status information, as well as to general patent information publicly available. EFS allows customers to electronically file patent application documents securely via the Internet. EFS is a system for submitting new utility patent applications and pre-grant publication submissions in electronic publication-ready form. EFS includes software to help customers prepare submissions in extensible Markup Language (XML) format and to assemble the various parts of the application as an electronic submission package. EFS also allows the submission of Computer Readable Format (CRF) sequence listings for pending biotechnology patent applications, which were filed in paper form.

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/BRIAN P. YENKE/  
Primary Examiner, Art Unit 2622

B.P.Y.  
16 Nov 09